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# **Notice of Allowability**

**Application No.**

10/676,977

**Examiner**

Gregory D. Thompson

**Applicant(s)**

HOULE ET AL.

**Art Unit**

2835

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to filing on 9/03, election on 8/05 and interview on 11/05.
2. ☒ The allowed claim(s) is/are 13-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## **Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                               |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>11/05</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>11/03</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                                       |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                            | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                      |
|   | 9. <input type="checkbox"/> Other _____.  |

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claims 1-12 canceled as drawn to non-elected invention.

Claim 15, line 3 language of "the outer wall" deleted and language of - - one of the plurality of outer walls - - added. Line 5 language of " the outer walls " deleted and language of - - one of the plurality of outer walls - - added.

Claim 17, line 6 language of " fluid" deleted.

Claim 18, line 4 language of " fluid" deleted.

Claim 23, line 3 language of " the outer wall" deleted and language of - - one of the plurality of outer walls - - added. Line 5 language of " the outer wall" deleted and language of - - one of the plurality of outer walls - - added.

Claim 25, line 6 language of " fluid" deleted. Claim 26, line 4 language of " fluid" deleted.

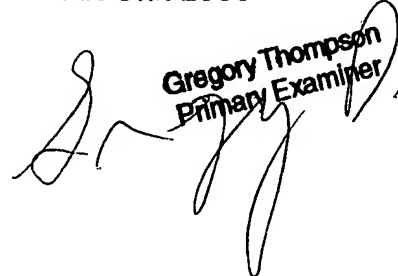
2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Prewitt on 11/9/05.

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**3.** The following is an examiner's statement of reasons for allowance: the cited art does not teach nor suggest a first substrate having die facing side and an opposite heat dissipation side with a die thermally coupled to back side, a microchannel structure having a plurality of outer walls enclosing an area coupled to the heat dissipation side, a second substrate coupled to the microchannel structure with the first substrate, structure and the second substrate defined a closed microchannel as claimed in claims 13 and 21. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Gregory D. Thompson at telephone number (571) 272-2045.

Gregory D Thompson  
Primary Examiner  
Art Unit 2835

  
**Gregory Thompson  
Primary Examiner**  
